



SAFETY DATA SHEET

Section 1: IDENTIFICATION

Product Name: RML-2000 Cleaner
Product Code: B4570
MSDS Date: November 7, 2014

Flo-Strip Division
2101 Clifton Ave
St. Louis, MO 63139

General Information: 314-644-1300
CHEMTREC: 800-424-9300

Section 2: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

GHS Classification:

Corrosive to metals (Category 1)
Skin corrosion (Category 1A)
Serious eye damage (Category 1)

GHS Labeling



Symbol:

Signal Word: Danger

Hazard Statements:

May be corrosive to metals
Causes severe skin burns and eye damage
Causes serious eye damage.

Precautionary Statements:

Prevention:

Keep only in original container.
Do not breathe mists.
Wash thoroughly after handling.
Wear protective gloves/protective clothing/eye protection/face protection.
Wear eye protection/face protection.

Response:

Absorb spillage to prevent material damage.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If inhaled: Remove person to fresh air and keep comfortable for breathing.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
If swallowed: Rinse mouth. Do NOT induce vomiting. Immediately call a poison center/doctor.
Wash contaminated clothing before reuse.

Storage:

Store locked up.

Store in corrosive resistant container with a resistant inner liner.

Disposal:

Dispose of contents/container in accordance with local/regional/national/international regulations.

Potential Health Effects: See Section 11 for more information.

This product does not contain carcinogens or potential carcinogens as listed by IARC, NTP, or ACGIH.

This material contains components that are considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Potential Environmental Effects: See Section 12 for more information.

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

No.	Component CAS REG. NO.	Amount %	OSHA		ACGIH	
			TWA	STEL	TWA	STEL
1	Sodium Hydroxide CAS #1310-73-2	1-50	2 mg/M ³	Not avail	2 mg/M ³	Not avail
2	Sillicic acid, sodium salt CAS #1344-09-8	1-10	Not avail	Not avail	Not avail	Not avail

Section 4: FIRST AID MEASURES

Emergency first aid procedures by route of exposure:

Inhalation: If overcome by exposure, remove victim to fresh air immediately. Give oxygen or artificial respiration as needed. Obtain medical attention if breathing difficulty persists.

Ingestion: Do not induce vomiting. Immediately drink large quantities of water. Obtain medical attention. Do not give anything by mouth if the person is unconscious or if having convulsions.

Skin: Remove contaminated clothing as needed. Wash skin thoroughly with mild soap and water. Flush with lukewarm water for 15 minutes. Seek medical attention.

Eyes: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention at once.

Section 5: FIRE FIGHTING MEASURES

Flash Point: Not applicable

Auto-ignition Temperature: Not applicable

Suitable Extinguishing Media:

Choose extinguishing media suitable for surrounding materials.

Fire Fighting Equipment/Instructions: Use water to cool containers exposed to fire. Contact with reactive metals, e.g. aluminum may result in the generation of flammable hydrogen gas. Sodium hydroxide may react with water. On small fires, use dry chemical, carbon dioxide, water spray, or foam. On large fires, use water-flooding quantities as a fog.

HAZARD	HMIS	NFPA
Toxicity	3	3
Fire	0	0
Reactivity	0	0



Section 6: ACCIDENTAL RELEASE MEASURES

Personal Protection: Use personal protective equipment. Ensure adequate ventilation.

Environmental Precautions: Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.

Method for Containment: Absorb spilled liquid in suitable non-flammable inert material such as clay, vermiculite or diatomaceous earth.

Methods for Clean-up: Dike or divert flow of material to a diked area as soon as possible. If necessary create an excavation large enough to contain the spill and associated neutralization materials. To reduce environmental damage, line the excavated surface with a material to which it is compatible and begin neutralization process or remove by vacuum, or pumping.

Section 7: HANDLING AND STORAGE

Handling:

Do not take internally. Avoid contact with skin, eyes and clothing. Upon contact with skin or eyes, wash off with water. Avoid breathing vapor or mist.

Storage:

Do not store at temperatures above: 130°C (266°F)

Section 8: EXPOSURE CONTROLS/ PERSONAL PROTECTION

Engineering Controls: Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.

Personal Protective Equipment (PPE)

Respiratory Protection: If mists, or aerosols are generated and are not controlled below the TLV with ventilation to maintain levels to below the TLV.

Eye/Face Protection: Chemical splash goggles and/or face shield.

Hand Protection: Wear chemical resistant gloves such as Neoprene.

Body: Wear protective clothing including apron, sleeves, boots, head and face protection should be worn.

Other Protective Equipment:

Facilities storing or utilizing this material should be equipped with eyewash and/or shower facilities.

See section 3 for exposure limits.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance, State: Clear Liquid

Color: Not available

Odor: Not available

pH: 13 (0.5% Solution)

Vapor Density: Not available

Boiling Point: 130-140°C (266-284°F)

Vapor Pressure: Approximately equal to water

Melting Point/freezing point: 10-12°C (50-54°F)

Flash Point: (See Section 5)



Flammability Properties (See section 5)
Solubility (in water) Miscible
Specific Gravity: 1.2-1.5
Evaporation Rate: Not available
Octanol/Water partition coefficient (Kow) Not available
Auto-ignition temperature: Not available
Decomposition temperature: Not available

Section 10: STABILITY AND REACTIVITY

Stability: Stable at room temperature (70°F)

Condition to Avoid: Contact with reactive metals. May react with water.

Incompatible Materials for packaging: Aluminum, zinc, tin, wood, paper.

Incompatible Materials for storage or transport: Acids, nitrogen containing organics, phosphorous, explosives, organic peroxides, aluminum, zinc, tin, halogenated hydrocarbons.

Hazardous Decomposition: Contact with carbohydrates can produce carbon monoxide. Contact with aluminum, zinc, or tin can produce hydrogen gas.

Hazardous Reactions: This product will not undergo polymerization.

Section 11: TOXICOLOGICAL INFORMATION

ACUTE EFFECTS:

Oral LD 50: Believed to be 300 – 500 mg/kg. (rat); harmful if swallowed

Dermal LD 50: Believed to be > 2 g/kg (rabbit)

Irritation: Causes burns to eyes and skin.

CHRONIC EFFECTS:

Carcinogenic Effects: This product is not known or reported to be carcinogenic by any reference source including IARC, OSHA, NTP, or EPA.

Mutagenic Effects: Found to be non-mutagenic in the Ames assay, a bacterial DNA-repair test and in the Syrian hamster embryo (SA7/SHE) cell transformation assay.

Teratogenic Effects: Not Available

Developmental Toxicity: There are no known or reported effects on reproductive function or fetal development from exposure to this product.

Target Organs: This product is corrosive to all tissues contacted and upon inhalation, may cause irritation to mucous membranes and respiratory tract. **Skin** May be harmful if absorbed through skin. Causes skin burns.

Eyes Causes eye burns. Causes severe eye burns.

Ingestion May be harmful if swallowed. **Inhalation** May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity:

Caustic soda is not lethal to fully developed fish in natural fresh waters until the pH becomes greater than 9.0: Lethal pH for Goldfish: 10.9, and Lethal pH for Bluegill sunfish: 10.5

Gambusia affinis (mosquito fish), 96 hr. LC50: 125 mg/l

Bluegill, 48 hr. LC50: 99 mg/l



Section 13: DISPOSAL CONSIDERATIONS

Dispose of in accordance with local, state, and federal regulations.

Section 14: TRANSPORT INFORMATION

Proper Shipping Name: Compounds, Cleaning Liquid (contains Sodium Hydroxide)

Hazard Class: 8

Identification No.: NA1760

Packing Group: II

Label: Corrosive

Section 15: REGULATORY INFORMATION

TSCA Inventory This product and/or its components are listed on the Toxic Substances Control Act (TSCA) inventory.

SARA 302/304 The Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires facilities subject to Subparts 302 and 304 to submit emergency planning and notification information based on Threshold Planning Quantities (TPQs) and Reportable Quantities (RQs) for "Extremely Hazardous Substances" listed in 40 CFR 302.4 and 40 CFR 355. No components were identified.

SARA 313: No components were identified.

CERCLA The Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) requires notification of the National Response Center concerning release of quantities of "hazardous substances" equal to or greater than the reportable quantities (RQ's) listed in 40 CFR 302.4. As defined by CERCLA, the term "hazardous substance" does not include petroleum, including crude oil or any fraction thereof which is not otherwise specifically designated in 40 CFR 302.4. Chemical substances present in this product or refinery stream that may be subject to this statute are: Sodium Hydroxide 1,000 lbs

SARA 311/312 Hazard The Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires facilities subject to this subpart to submit aggregate information on chemicals by "Hazard Category" as defined in 40 CFR 370.2. This material would be classified under the following hazard categories: health hazard

Section 16: OTHER SUPPLEMENTAL INFORMATION

Prepared by: Chemisphere Corp. on 7/1/14

Disclaimer:

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